

REMARKS

This is in response to the Final Office Action of August 21, 2006. In view of the foregoing amendments and following representations, reconsideration is respectfully requested.

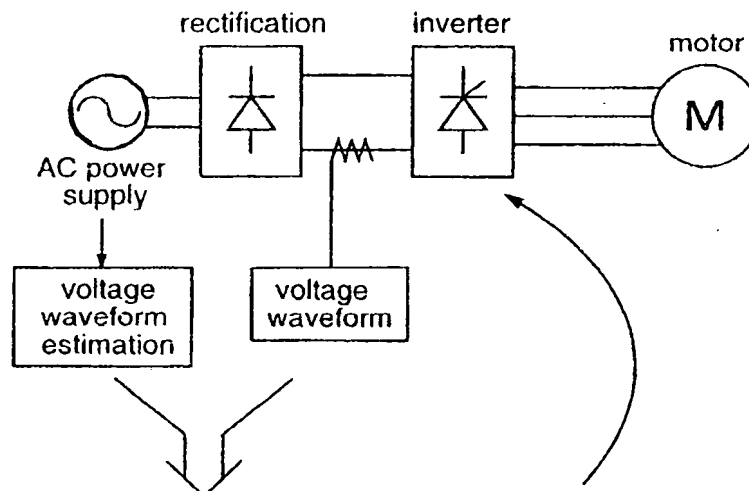
By the above amendment, claim 1 has been amended. Thus, claims 1-17 are currently pending in the present application.

On pages 2-7 of the Office Action, claims 1-17 are rejected over the prior art, with the Examiner particularly relying on Doyama et al. (U.S. Patent No. 5,646,499). In response, claim 1 has been amended to more clearly distinguish the present invention over the applied prior art references.

The present invention, as defined in claim 1, requires, *inter alia*:

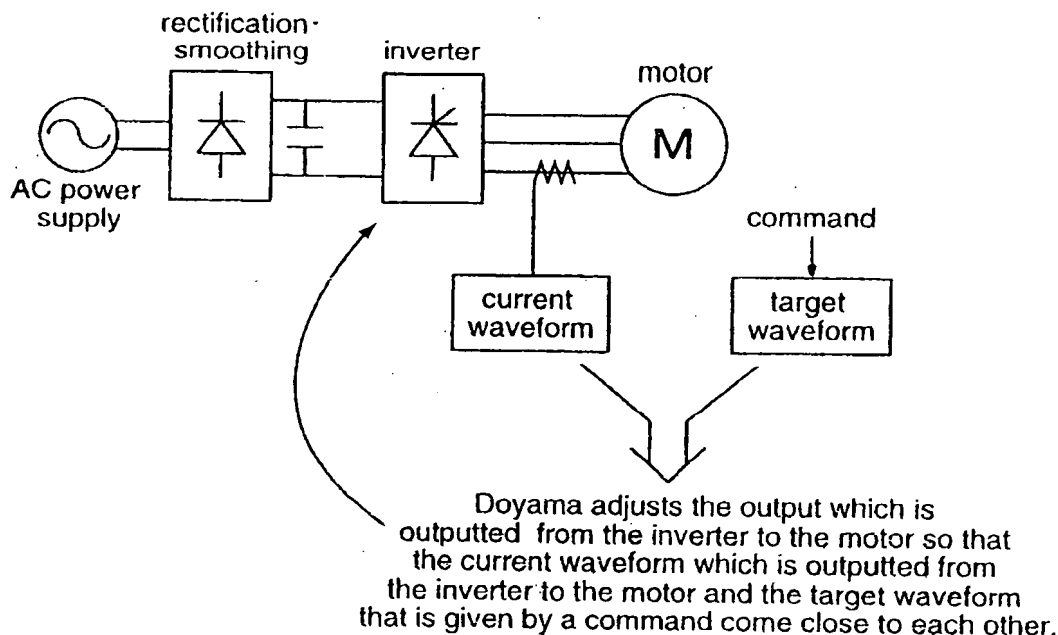
"said inverter control unit is operable to change the value of the current or voltage outputted from said inverter circuit so that a waveform of an input voltage of said inverter circuit, which is outputted from said rectifier circuit to said inverter circuit, becomes equal or approximate to an absolute value of a waveform of an output voltage of the single-phase an AC power supply, based on the power supply voltage estimated by said power supply voltage estimation unit."

The above-described arrangement is shown in the figure below.



The present invention adjusts the output which is outputted from the inverter to the motor so that a shape of a waveform of an input voltage of the inverter which is outputted from the rectifier circuit to the inverter and a shape of an absolute value of a waveform of an output voltage of the AC power supply which is estimated by the voltage waveform estimation come close to each other.

In contrast, Doyama adjusts an output, which is outputted from the inverter to the motor, so that the current waveform, which is outputted from the inverter to the motor, and the target waveform that is given by a command come close to each other as shown in the figure below.



Thus, based on the above, it should now be clear that the present invention, as defined in claim 1, requires a motor driving apparatus that is completely different from Doyama apparatus.

As is evident from a comparison of the two figures, Doyama does not check an input voltage of an inverter or an output voltage of a power supply. Instead, Doyama et al. merely adjusts an output waveform to minimize an input voltage of the inverter. Furthermore, Doyama et al. does not disclose or suggest that the inverter control unit of the motor driving apparatus of claim 1 is operable to change the value of the current or voltage outputted from the inverter circuit so that a waveform of an input voltage of the inverter circuit becomes equal or approximate to an absolute value of a waveform of output voltage of an AC power supply, based on the power supply voltage estimated by the power supply voltage estimation unit.

Accordingly, claim 1 is clearly not anticipated by Doyama, since the Doyama reference does not disclose each and every limitation of claim 1.

Furthermore, in view of the clear distinctions discussed above, the Applicants respectfully submit that one skilled in the art would not have been motivated to modify Doyama et al. in such a manner as to result in, or otherwise render obvious, the invention of claim 1.


Further, the modifying references, i.e. Mose et al., Polo et al., Takahashi et al. and Takagi et al., either individually or in combination, do not cure the deficiencies of the Doyama reference, and thus, any combination of the applied reference would not result in Applicants' invention as defined in claim 1. The modifying references are discussed in detail in the previous response.

In view of the above, it is submitted that the present application is now clearly in condition for allowance. The Examiner therefore is requested to pass this case to issue.

In the event that the Examiner has any comments or suggestions of a nature necessary to place this case in condition for allowance, then the Examiner is requested to contact Applicant's undersigned attorney by telephone to promptly resolve any remaining matters.

Respectfully submitted,

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